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INTERNATIONALSEARCHREPORT.



(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 00000PCT7505	FOR FURTHER ACTION	as well a	see Form PCT/ISAs, where applicable	
International application No. PCT/JP 2004 / 016814	International filing date (day/n			Date (day/month/year) L1.2003
Applicant SEMICONDUCTOR ENE	RGY LABORATORY	CO., L	TD.	
This international search report has been p to Article 18. A copy is being transmitte		rching Authority	and is transmitted	no the applicant according
This international search report consists	of a total of 3 sheets			
It is also accompanied by a	copy of each prior art documen	t cited in this rep	oort.	MAR. Ü 4 2005
Basis of the report a. With regard to the language, th language in which it was filed, un			pasis of the interna	setional application in the
the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).				
b. With regard to any nucleot	ide and/or amino acid sequenc	e disclosed in th	e international app	lication, see Box No. I.
2. Certain claims were foun	d unsearchable (See Box II).	•	·	
3. Unity of invention is lack	ing (See Box III).			
4. With regard to the title,		,		
the text is approved as sub	mitted by the applicant.			
the text has been established	ed by this Authority to read as	follows:	•	
	4.5			
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·	,		(2005. 3, 18
	• •			
5. With regard to the abstract,		•		·
the text is approved as sub	mitted by the applicant.			•
the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.				
6. With regard to the drawings,				
a. the figure of the drawings to be	published with the abstract is	Figure No	2	
	uthority, because the applicant uthority, because this figure be		_	7005 3, 2 4

Applicant's or agent's file reference

INTERI()IONALSEARCHREPORT

Inte; jonal application No. PCT/JP2004/016814

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A. CLASSIFICATIONOF SUBJECT MATTER				
Int.Cl ⁷ G09F9/00,H05B33/14,H01L29/786,H01L21/288,H01L27/088				
	o International Patent Classification (IPC) or to both n	ational classification and IPC	•	
	DS SEARCHED ocumentation searched (classification system followed by	, classification symbols)	•	
•	G09F9/00, H05B33/10-33/28, H01L29/7	· · · · · · · · · · · · · · · · · · ·	H01L27/088	
	ion searched other than minimum documentation to the		-	
Applicati Containin	Utility Model Gazette 1922-1996, Japane lons 1971-2005, Japanese Registered Util ng the Utility Model 1996-2005	ity Model Gazette 1994-2005, J	Japanese Gazette	
Electronic da	ata base consulted during the international search (name of	of data base and, where practicable, search te	rms used)	
C. DOCUI	MENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.	
X Y	JP 7-312290 A (NEC CORPORA paragraph [0037]-[0047] , & US 5747930 A1 & EP 6847	figs. 2-4	1,12 2-11,13-47	
Y	JP 2003-058077 A (FUJI PHO 2003.02.28 whole document (family:none)	2-11,13-47		
Y	JP 2000-259099 A (SEIKO EPS 2000.09.22 paragraph[0028],[0040], fig & US 6614053 B1 & CN 1269	gs.3,8	10	
Y	JP 2000-269336 A (TOSHIBA 6 2000.09.29 whole document & TW 449818 B	22-35		
Further documents are listed in the continuation of Box C. See patent family annex.				
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the inter- "Y" document of particular relevance; the element published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "E" document of particular relevance; the element published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention				
national filing date "L" document which may throw doubts on priority claim(s) or which "L" document which may throw doubts on priority claim(s) or which				
is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art				
"P" document published prior to the international filing date but later "&" document member of the same patent family than the priority date claimed				
Date of the actual completion of the international search Date of mailing of the international search report				
07.02.2005		01. 3. 20	05	
	ailing address of the ISA/JP	Authorized officer	2M 9804	
	Japan Patent Office Hajime Kitagawa			
3-4-3, Kası	umigaseki, Chiyoda-ku, Tokyo 100-8915, Japan	Telephone No. +81-3-3581-1101 E	xt. 3274	

INTER TIONALSEARCHREPORT

Form PCT/ISA/210 (continuation of second sheet) (January 2004)

International application No.
PCT/JP2004/016814

C (Continua	ion). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant	Relevant to claim No.	
Y .	JP 2001-281438 A (SEIKO EPSON CORPORATION) 2001.10.10 paragraph [0039],[0054],figs.1-12 (family:none)		
Y .	JP 2003-050405 A (MATSUSHITA ELECTRIC INDUSTRIAL Co., LTD.) 2003.02.21 paragraph [0078]-[0088], figure 14,15 & US 2002/056838 A1 & EP 1209748 A1 & CN 1353329 A		31-35
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PATENT COOPERATION TREATY

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INTERNATIONALSEARCHREPORT

(PCT Article 18 and Rules 43 and 44)

00000PCT7507	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/JP 2004 / 016795	International filing date (day/month 05.11.2004	(Year) (Earliest) Priority Date (day/month/year) 14.11.2003
Applicant SEMICONDUCTO	R ENERGY LABORATO	DRY CO., LTD.
This international search report has been p to Article 18. A copy is being transmitte	orepared by this International Searching d to the International Bureau.	g Authority and is transmitted to the applicant according
This international search report consists It is also accompanied by a	of a total of 2 sheets. copy of each prior art document cited	in this report. RECEIVED FEB. 1 8 2005
language in which it was filed, un	e international search was carried o	ut on the basis of the haternational application in the
the international sear this Authority (Rule		anslation of the international application furnished to
b. With regard to any nucleot	ide and/or amino acid sequence disc	losed in the international application, see Box No. I.
2. Certain claims were foun	d unsearchable (See Box II).	* * * * * * * * * * * * * * * * * * *
3. Unity of invention is lack	ing (See Box III).	
4. With regard to the title,		
the text is approved as sub	· - ·	
the text has been established	ed by this Authority to read as follow	s:
	*	
	d, according to Rule 38.2(b), by this A	Authority as it appears in Box No. IV. The applicant and search report, submit comments to this Authority.
6. With regard to the drawings,	7 ,	
a. the figure of the drawings to be	published with the abstract is Figur	re No1E
	uthority, because the applicant failed uthority, because this figure better ch	1 /15 2 1





INTERNALIONALSEARCHREPORT

International application No.

		4	PCT/JP200	04/016795
A. CLA	SSIFICATION OF SUBJECT MATTER			
Int.Cl ' G	02F 1/1368, G02F 1/1339 H01	L 21/288	-	•
According to	o International Patent Classification (IPC) or to both n	ational classification ar	nd IPC	
	DS SEARCHED	·		
	ocumentation searched (classification system followed by \$02F 1/1368, G02F 1/1339 500, H01	9	•	
incer e	702F 1/1300, GUZF 1/1339 500, HUI	1 21/200		
Documentat	ion searched other than minimum documentation to the	extent that such docume	ents are included in th	e fields searched
Applicati	Utility Model Gazette 1922-1996, Japane lons 1971-2005, Japanese Registered Util ag the Utility Model 1996-2005			lity Model apanese Gazette
Electronic da	ata base consulted during the international search (name	of data base and, where	practicable, search ter	ms used)
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C. DOCUI	MENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where a	ppropriate, of the relev	ant passages	Relevant to claim No.
Y A	JP 2003-318133 A (SEIKO EPS 2003.11.07, claim 11,20, p [0036], [0039] (Family Non	aragraph [00	-	1-6 7-12
Y	JP 2003-315829 A(SEIKO EPS 2003.11.06, claim 15, para Fig.8	•	_	1-6
	& US 2004005739 A		*	
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Furthe	er documents are listed in the continuation of Box C.	See patent :	family annex.	·
	categories of cited documents:		published after the in	ternational filing date or
conside	ent defining the general state of the art which is not cred to be of particular relevance	understand the p	rinciple or theory un	ne application but cited to derlying the invention
nationa	application or patent but published on or after the inter- l filing date	be considered n	lovel or cannot be c	claimed invention cannot onsidered to involve an
is cited	ent which may throw doubts on priority claim(s) or which to establish the publication date of another citation or other		hen the document is ticular relevance; the	claimed invention cannot
'O" docume	reason (as specified) ent referring to an oral disclosure, use, exhibition or other	combined with	one or more other	tep when the document is such documents, such
means 'P" docume than the	ent published prior to the international filing date but later e priority date claimed		ng obvious to a personer of the same patent	
Date of the a	actual completion of the international search	Date of mailing of the	international search	report
	01.02.2005		5. 2. 200)5
	ailing address of the ISA/JP	Authorized officer		2X 3411
•	Japan Patent Office	YAMAGUCHI	,Hiroyuki	

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